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Use of 4,4-diarylbutadienes as photostable UV filters in cosmetics
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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
AU 9879977	A	19990225	AU 9879977	A	19980813	199920 B
EP 916335	A2	19990519	EP 98114967	A	19980810	199924
JP 11116455	A	19990427	JP 98228883	A	19980813	199927
DE 19755649	A1	19990617	DE 197055649	A	19971215	199930
CN 1218660	A	19990609	CN 98120558	A	19980813	199941
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			US 2001765624	A	20010122	
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			EP 98114967	A	19980810	
ES 2231925	T3	20050516	EP 98114967	A	19980810	200535

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A 19970813; DE 197046654 A 19971022

Patent Details:

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JP 11116455	A		103	A61K-007/42	
DE 19755649	A1			C07C-069/602	
CN 1218660	A			A61K-007/06	
US 6238649	B1			A61K-007/42	
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Abstract (Basic): AU 9879977 A

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NOVELTY - Use of 4,4-diarylbutadienes (I) as photostable UV filters in cosmetics for protecting the skin and hair from the sun's rays.

DETAILED DESCRIPTION - The use of 4,4-diarylbutadiene derivatives of formula (I) as a cosmetic preparation is new:

Where the diene system is Z,Z; Z,E; E,Z or E,E;

R1, R2=H, 1-20C alkyl, 2-10C alkenyl, 3-10C cycloalkyl, 3-10C cycloalkenyl, 1-12C alkoxy, 1-20C alkoxycarbonyl, 1-12C alkylamino, 1-12C dialkylamino, aryl, heteroaryl (optionally substituted by carboxylate, sulfonate or ammonium residues);

R3=H, COOR5, COR5, CONR5, R6, CN, O=S(R5)=O, O=S(OR5)=O, R7OP(OR8)=O, 1-20C alkyl, 2-10C alkenyl, 3-10C cycloalkyl, 7-10C bicycloalkyl, 3-10C cycloalkenyl, 7-10C bicycloalkenyl, aryl or heteroaryl (optionally substituted);

R4=COOR6, COR6, CONR5, R6, CN, O=S(R6)=O, O=S(OR6)=O, R7OP(OR8)=O, 1-20C alkyl, 2-10C alkenyl, 3-10C cycloalkyl, 7-10C bicycloalkyl, 3-10C cycloalkenyl, 7-10C bicycloalkenyl, aryl or heteroaryl (optionally substituted);

R5-R8=H, 1-20C alkyl, 2-10C alkenyl, 3-10C cycloalkyl, 7-10C bicycloalkyl, 3-10C cycloalkenyl, 7-10C bicycloalkenyl, aryl or heteroaryl (optionally substituted); and

n=1-3;

where R3-R8 may in each case together with the C atoms to which they are bonded, form a 5- or 6-membered ring which may be further fused.

ACTIVITY - Dermatological.

MECHANISM OF ACTION - None given.

USE - (I) can be used in as a photostable cosmetic composition for protecting the skin or hair from the sun's rays as UV-A filters (claimed), for preventative treatment of inflammations and allergies of the skin and for preventing certain types of skin cancer.

ADVANTAGE - (I) has a high absorbance in the region of UV-A radiation, shows particularly high photostability and has a pleasant skin feel.

pp; 59 DwgNo 0/0

Title Terms: PHOTOSTABLE; ULTRAVIOLET; FILTER; COSMETIC

Derwent Class: B03; B05; B07; D21; E19

International Patent Class (Main): A61K-007/06; A61K-007/42; A61K-007/44; C07C-069/602; C07C-069/76

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